

Monitoring Action Number	Indicator	Monitoring Task	Justification	Uncertainty And Risk	Duration	Data Analysis	Trigger For Management Changes
MA-5	Contaminants	The Corps, Fish & Wildlife and NMFS will annually review any new sediment chemistry from the Lower Columbia River and estuary from sources such as SEDQUAL database and know permit applicants and determine if there are any changes in the "Management Area Ranking" as defined in the DMEF manual.	Ensure that channel construction and maintenance does not disturb undetected deposits of fine-grained material, potentially causing redistribution of contaminants that could pose a risk to salmonids and trout.	Contaminants M, M.	2 years before, 2 years during construction, and annually during maintenance	New sediment samples will be obtained in accordance with the DMEF Manual and will be compared to the NMFS guideline for the protection of salmon.	Any exceedances will be reported to the AMT to determine if consultation should be re-initiated. The Corps, NMFS and USFWS will meet annually or as new circumstances arise to review new data that indicates a changed condition that would trigger the need for additional sediment testing. Channel conditions include events such as spills, new listing of chemicals, changes in guidelines or threshold values, or any other indicator that suggests there is a reason to believe further testing may be required.

**Description:** The SEDQUAL database will be continually updated and reviewed annually to determine if there are areas that would require additional sampling and analysis. Ensure that the channel construction does not disturb undetected deposits of fine-grained material, potentially causing redistribution of contaminants that could pose a risk to salmonids and trout.

**Schedule:**

Continuing	Populating SEDQUAL database with data from the Columbia River including GIS graphical File
April 19, 2002	Delivered Access based database to NOAA Fisheries and USFWS along with graphics of the river showing COE sample locations
December 11, 2002	Meeting with NOAA Fisheries, USFWS, and COE to discuss status and scope of MA-5. Provided USFWS with CD containing the COE sample location graphics.
January 2003	SEDQUAL training for COE, NOAA Fisheries and USFWS in Lacey, WA or Portland.
June 2003	Progress/data review meeting, schedule sediment sampling and analysis.
August 2003	Collect and analyze sediment.
November 3, 2003	Prepare draft report on status of Columbia River sediment.  Meeting was held with NOAA and USFWS to review new information from the Astoria Turning Basin and Kalama anchorage. There were no exceedances in the material tested. Sediment chemistry information from the 1999 EMAP survey and 2000 EMAP survey was reviewed. In that data set, there was

	nothing in the EMAP program that exceeded screening values. Pesticides and PCBs were queried; all were below NOAA screening values. In 2004, EPA will resurvey the 50 stations tested in 2000. NOAA Fisheries Lyndall Johnson presented the results of NOAA's fish tissue sampling efforts. Jeremy Buck, USFWS, discussed grain size versus contamination which will be looked at through the RSET effort.
December 1, 2003	Prepare final report, populate SEDQUAL database with new information.  Memorandum of Record completed and reviewed by NOAA Fisheries and USFWS as required under MA-5.
January 2004 Postponed	Report to AMT when schedule is established under T&C 4.
April 5, 2004	Report provided to project managers.
November 4, 2004	Martin Payne installed new SEDQUAL 5.0 on Portland District computers which includes additional Columbia River data.
November 19, 2004	NOAA, USFWS, CORPS sediment review meeting scheduled.
November 5, 2005	Meeting Cancelled – No new information to review in November. Meeting rescheduled to January 2006
Jan 3, 2006	NOAA/Corps – sediment review meeting. It was an oversight on the Corps by not inviting USFWS. Mark Siipola will call USFWS, update them on the Jan 3, 2006 meeting and invite them to future meetings.